



\*\*FILE\*\*ID\*\*CHMESS

G 2

EDT  
V04

CCCCCCCC	HH	HH	MM	MM	MM	MM	EEEEE	SSSSSS	SSSSSS
CCCCCCCC	HH	HH	MM	MM	MM	MM	EEEEE	SSSSSS	SSSSSS
CC	HH	HH	MMMM	MMMM	MMMM	MMMM	EE	SS	SS
CC	HH	HH	MMMM	MMMM	MMMM	MMMM	EE	SS	SS
CC	HH	HH	MM	MM	MM	MM	EE	SS	SS
CC	HH	HH	MM	MM	MM	MM	EE	SS	SS
CC	HH	HH	HHHHHHHHHH	HHHHHHHHHH	HHHHHHHHHH	HHHHHHHHHH	EEEEE	SSSSS	SSSSS
CC	HH	HH	HHHHHHHHHH	HHHHHHHHHH	HHHHHHHHHH	HHHHHHHHHH	EEEEE	SSSSS	SSSSS
CC	HH	HH	MM	MM	MM	MM	EE	SS	SS
CC	HH	HH	MM	MM	MM	MM	EE	SS	SS
CC	HH	HH	MM	MM	MM	MM	EE	SS	SS
CC	HH	HH	MM	MM	MM	MM	EEEEE	SSSSSS	SSSSSS
CC	HH	HH	MM	MM	MM	MM	EEEEE	SSSSSS	SSSSSS
CCCCCCCC	HH	HH	MM	MM	MM	MM	EEEEE	SSSSSS	SSSSSS
CCCCCCCC	HH	HH	MM	MM	MM	MM	EEEEE	SSSSSS	SSSSSS

LL		SSSSSSSS
LL		SSSSSSSS
LL		SS
LLLLLLLL		SSSSSSSS
LLLLLLLL		SSSSSSSS

```
1 0001 0 XTITLE 'EDTSCHMESS - output a message'  
2 0002 0 MODULE EDTSCHMESS (  
3 0003 0 IDENT = 'V04-000'  
4 0004 0 ) =  
5 0005 1 BEGIN  
6 0006 1:  
7 0007 1 *****  
8 0008 1:  
9 0009 1: * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
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26 0026 1:  
27 0027 1:  
28 0028 1*****  
29 0029 1:  
30 0030 1:  
31 0031 1:++  
32 0032 1: FACILITY: EDT -- The DEC Standard Editor  
33 0033 1:  
34 0034 1: ABSTRACT:  
35 0035 1:  
36 0036 1: This module outputs a message on the last line of the terminal.  
37 0037 1:  
38 0038 1: ENVIRONMENT: Runs at any access mode - AST reentrant  
39 0039 1:  
40 0040 1: AUTHOR: Bob Kushlis, CREATION DATE: Unknown  
41 0041 1:  
42 0042 1: MODIFIED BY:  
43 0043 1:  
44 0044 1: 1-001 - Original. DJS 04-Feb-1981. This module was created by  
45 0045 1: extracting the routine EDT$SOUT_MSG from module CHANGE.BLI.  
46 0046 1: 1-002 - Regularize headers. JBS 03-Mar-1981  
47 0047 1: 1-003 - Make this routine general for messages or strings. SMB 30-Jun-1982  
48 0048 1: 1-004 - Remove setting to TI_WRSTR in case HCPY change mode. SMB 02-Jul-1982  
49 0049 1: 1-005 - Set EDT$$G_LASTMSG. JBS 05-Jul-1982  
50 0050 1: 1-006 - Call EDT$SFMT_STR instead of EDT$SFMT_LIT, so EDT$$G_PRV_COL will be  
51 0051 1: kept up to date. JBS 05-Oct-1982  
52 0052 1: 1-007 - Don't clear EDT$$G_SCR CHGD. JBS 09-Oct-1982  
53 0053 1: 1-008 - Bypass most of the fancy stuff if we are in hardcopy change mode. JBS 16-Nov-1982  
54 0054 1: 1-009 - Check for terminal type unknown also. SMB 03-Dec-1982  
55 0055 1: 1-010 - Treat message number 0 as meaning no message. JBS 01-Apr-1983  
56 0056 1:--  
57 0057 1:
```

EDTSCHMESS  
VO4-000

EDTSCHMESS - output a message  
Declarations

I 2  
16-Sep-1984 00:04:03  
14-Sep-1984 12:22:38  
VAX-11 Bliss-32 v4.0-742  
DISK\$VMSMASTER:[EDT.SRC]CHMESS.BLI;1 Page 2 (2)

EDT  
VO4

```
59    0058 1 %SBTTL 'Declarations'  
60    0059 1 !  
61    0060 1 ! TABLE OF CONTENTS:  
62    0061 1 !  
63    0062 1 !  
64    0063 1 REQUIRE 'EDTSRC:TRAROUNAM';  
65    0502 1 !  
66    0503 1 FORWARD ROUTINE  
67    0504 1     EDTSSOUT_MSG : NOVALUE;  
68    0505 1 !  
69    0506 1 !  
70    0507 1 ! INCLUDE FILES:  
71    0508 1 !  
72    0509 1 !  
73    0510 1 REQUIRE 'EDTSRC:EDTREQ';  
74    0645 1 !  
75    0646 1 ! MACROS:  
76    0647 1 !  
77    0648 1 !  
78    0649 1 !  
79    0650 1 !  
80    0651 1 ! EQUATED SYMBOLS:  
81    0652 1 !  
82    0653 1 !  
83    0654 1 !  
84    0655 1 ! OWN STORAGE:  
85    0656 1 !  
86    0657 1 !  
87    0658 1 !  
88    0659 1 ! EXTERNAL REFERENCES:  
89    0660 1 !  
90    0661 1 !     In the routine
```

! Output a message on the last line of the terminal

```

92    0662 1 %SBTTL 'EDT$SOUT_MSG - output a message'
93    0663 1
94    0664 1 GLOBAL ROUTINE EDT$SOUT_MSG (
95        0665 1     POS                                | Output a message
96        0666 1     MESS.                             | Line number for this message
97        0667 1     ADDR.                            | The message number to output
98        0668 1     LEN                               | Address of a string
99        0669 1     ) : NOVALUE =
100   0670 1
101   0671 1 //!
102   0672 1 FUNCTIONAL DESCRIPTION:
103   0673 1
104   0674 1 This routine outputs a message on the last line of the terminal.
105   0675 1 The input parameters are the line position for the message,
106   0676 1 the message number (if it is a message), or the message string and
107   0677 1 its length if no message number is present.
108   0678 1
109   0679 1 FORMAL PARAMETERS:
110   0680 1
111   0681 1     POS          The line number on which to print message
112   0682 1     MESS         The number of the message to output
113   0683 1     ADDR         The address of a string message
114   0684 1     LEN          The length of the string message
115   0685 1
116   0686 1
117   0687 1
118   0688 1
119   0689 1 IMPLICIT INPUTS:
120   0690 1
121   0691 1     EDTSSA_FMT_WRRUT
122   0692 1     EDTSSG_MESSAGE_LINE
123   0693 1     EDTSSG_TI_TYP
124   0694 1
125   0695 1 IMPLICIT OUTPUTS:
126   0696 1
127   0697 1     EDTSSG_PRV_COL
128   0698 1     EDTSSG_TIN_ECHOPOS
129   0699 1     EDTSSG_MSGFLG
130   0700 1     EDTSSG_LASTMSG
131   0701 1
132   0702 1 ROUTINE VALUE:
133   0703 1
134   0704 1     NONE
135   0705 1
136   0706 1 SIDE EFFECTS:
137   0707 1
138   0708 1     NONE
139   0709 1
140   0710 1 --
141   0711 1
142   0712 2 BEGIN
143   0713 2
144   0714 2 EXTERNAL ROUTINE
145   0715 2     EDT$$$STOP_WKINGMSG,
146   0716 2     EDT$$$FMT_STR,
147   0717 2     EDT$$SOUT_FMTBUF,
148   0718 2     EDT$$$SC_POSCSIF.

```

: R  
: :  
: :

| Stop the working message  
| Put a string in format buffer  
| Output the format buffer  
| Put cursor position in format buffer

```

149      0719 2      EDTSSC_ERATOEOL;
150      0720 2      EDTSSC_REVID;
151      0721 2      EDTSSMSG_TOSTR;
152      0722 2
153      0723 2      EXTERNAL
154      0724 2      EDTSSG_MESSAGE_LINE,
155      0725 2      EDTSSG_TIN_ECHOPOS,
156      0726 2      EDTSSG_MSGFLG,
157      0727 2      EDTSSG_PRV_COL,
158      0728 2      EDTSSG_LASTMSG,
159      0729 2      EDTSSG_TI_TYP;
160      0730 2
161      0731 2      EDTSSSTOP_WKINGMSG ();
162      0732 2      !+ If the message is being printed on the last line, then we want it to
163      0733 2      stay there until the user hits a key, but we don't want to issue the
164      0734 2      PRTC message.
165      0735 2      !-
166      0736 2
167      0737 2
168      0738 3      IF (.POS EQ .EDTSSG_MESSAGE_LINE + 1)
169      0739 2      THEN
170      0740 3      BEGIN
171      0741 3      EDTSSG_TIN_ECHOPOS = 0;
172      0742 3      EDTSSG_MSGFLG = 1;
173      0743 2      END;
174      0744 2
175      0745 2      !+ Don't do anything fancy if this is a hard copy terminal.
176      0746 2
177      0747 2      !-
178      0748 2
179      0749 3      IF (.EDTSSG_TI_TYP NEQ TERM_HCPY) AND (.EDTSSG_TI_TYP NEQ TERM_UNKNOWN)
180      0750 2      THEN
181      0751 3      BEGIN
182      0752 3      !+ Force the cursor to the indicated line and column
183      0753 3      !-
184      0754 3      EDTSSC_POSCSIF (.POS, .EDTSSG_TIN_ECHOPOS);
185      0755 3
186      0756 3      !+ Erase the line.
187      0757 3      !-
188      0758 3      EDTSSC_ERATOEOL ();
189      0759 3
190      0760 3      !+ Turn reverse video on.
191      0761 3      !-
192      0762 3      EDTSSC_REVID ();
193      0763 2
194      0764 2      END;
195      0765 2
196      0766 2      !+
197      0767 2      !- Get the message.
198      0768 2
199      0769 2
200      0770 3      IF (.LEN NEQ 0)
201      0771 2      THEN
202      0772 3      BEGIN
203      0773 3      EDTSSFMT_STR (.ADDR, .LEN);
204      0774 3      EDTSSG_LASTMSG = 1;
205      0775 3      END

```

EDTSCHMESS  
V04-000

EDTSCHMESS - output a message  
EDTSSOUT\_MSG - output a message

L 2  
16-Sep-1984 00:04:03  
14-Sep-1984 12:22:38  
VAX-11 Bliss-32 v4.0-742  
DISK\$VMSMASTER:[EDT.SRC]CHMESS.BLI;1 Page 5  
(3)

\*\*F

```
206    0776 2      ELSE
207    0777 2
208    0778 2      IF (.MESS NEQ 0)
209    0779 2      THEN
210    0780 2      BEGIN
211    0781 2          EDTSSMSG_TOSTR (.MESS);
212    0782 2          EDTSSG_LASTMSG = .MESS;
213    0783 2      END;
214    0784 2
215    0785 2      !+ Write out the buffer.
216    0786 2      !- EDTSSOUT_FMTBUF ();
217    0787 2
218    0788 2      EDTSSOUT_FMTBUF ();
219    0789 1      END;                                ! of routine EDTSSOUT_MSG
```

.TITLE EDTSCHMESS EDTSCHMESS - output a message  
.IDENT \V04-000\

.EXTRN EDTSSSTOP\_WKINGMSG  
.EXTRN EDTSSFMT\_STR, EDTSSOUT\_FMTBUF  
.EXTRN EDTSSC\_POSCSIF  
.EXTRN EDTSSC\_ERATOEOL  
.EXTRN EDTSSC\_REVID, EDTSSMSG\_TOSTR  
.EXTRN EDTSSG\_MESSAGE\_LINE  
.EXTRN EDTSSG\_TIN\_ECHOPOS  
.EXTRN EDTSSG\_MSGFLG, EDTSSG\_PRV\_COL  
.EXTRN EDTSSG\_LASTMSG, EDTSSG\_TI\_TYP

.PSECT \_EDT\$CODE,NOWRT, SHR, PIC,2

50 00000000G	54 00000000G	00 001C 00000	.ENTRY EDTSSOUT_MSG, Save R2,R3,R4	: 0664
50 00000000G	53 00000000G	00 9E 00002	MOVAB EDTSSG_LASTMSG, R4	
00	00	00 9E 00009	MOVAB EDTSSG_TIN_ECHOPOS, R3	: 0731
50	00	01 C1 00010	CALLS #0, EDTSSSTOP_WKINGMSG	: 0738
04	50	AC D1 0001F	ADDL3 #1, EDTSSG_MESSAGE_LINE, R0	
		09 12 00023	CMPL POS, R0	
		63 D4 00025	BNEQ 1\$	
00000000G	00	01 D0 00027	CLRL EDTSSG_TIN_ECHOPOS	: 0741
00000000G	50 00000000G	00 D0 0002E	MOVL #1, EDTSSG_MSGFLG	: 0742
03	03	50 D1 00035	MOVL EDTSSG_TI_TYP, R0	: 0749
		1E 13 00038	CMPL R0, #3	
		50 D5 0003A	BEQL 2\$	
		1A 13 0003C	TSTL R0	
		63 DD 0003E	BEQL 2\$	
00000000G	00	AC DD 00040	PUSHL EDTSSG_TIN_ECHOPOS	: 0755
00000000G	00	02 FB 00043	PUSHL POS	
00000000G	00	00 FB 0004A	CALLS #2, EDTSSC_POSCSIF	: 0759
00000000G	00	00 FB 00051	CALLS #0, EDTSSC_ERATOEOL	: 0763
	10	AC D5 00058	CALLS #0, EDTSSC_REVID	: 0770
00000000G	7E	10 13 0005B	TSTL LEN	
00	0C	AC 7D 0005D	BEQL 3\$	
64	02	FB 00061	MOVO ADDR, -(SP)	: 0773
	01	D0 00068	CALLS #2, EDTSSFMT_STR	: 0774
	12	11 0006B	MOVL #1, EDTSSG_LASTMSG	: 0770
52	08	AC D0 0006D	BRB 4\$	
		38:	MOVL MESS, R2	: 0778

EDTSCHMESS  
VO4-000

EDT\$CHMESS - output a message  
EDT\$OUT\_MSG - output a message

M 2

16-Sep-1984 00:04:03  
14-Sep-1984 12:22:38

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DISK\$VMSMASTER:[EDT.SRC]CHMESS.BLI;1 Page 6  
(3)

00000000G	00	OC 13 00071	BEQL	4\$	
		52 DD 00073	PUSHL	R2	0781
	64	01 FB 00075	CALLS	#1, EDT\$MSG_TOSTR	
00000000G	00	52 D0 0007C	MOVL	R2, EDT\$MSG_LASTMSG	0782
		00 FB 0007F 4\$: 04 00086	CALLS	#0, EDT\$OUT_FMTBUF	0788
			RET		0789

; Routine Size: 135 bytes, Routine Base: \_EDT\$CODE + 0000

: 220 0790 1  
: 221 0791 1 !<BLF/PAGE>

**EDT\$CHMESS** - output a message  
**V04-000** **EDT\$SOUT\_MSG** - output a message

223 0792 1 END  
224 0793 1  
225 0794 0 ELUDOM

N 2  
16-Sep-1984 00:04:03 VAX-11 Bliss-32 V4.0-742 Page 7  
14-Sep-1984 12:22:38 DISK\$VMSMASTER:[EDT.SRC]CHMESS.BLI;1 (4)

## ! of module EDTSCHMMES

## PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	135	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

## Library Statistics

File	Total	Loaded	Percent	Pages Mapped	Processing Time
-\$255\$DUA28:[EDT.SRC]EDT.L32:1	377	2	0	40	00:00.2
-\$255\$DUA28:[EDT.SRC]PSECTS.L32:1	2	1	50	7	00:00.1

## COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:CHMESS/OBJ=OBJ\$:CHMESS MSRC\$:CHMESS.BLI/UPDATE=(ENH\$:CHMESS  
: )

; Size: 135 code + 0 data bytes

Run Time: 00:11.9

; Elapsed Time: 00:15.  
; Lines/CRU Min: 4006

• Lines/CPU Min: 4006  
• Lexemes/CPU-Min: 10289

Lexemes/CPU-Mem: 10289  
Memory Used: 72 pages

: Memory Used: 72 pages  
: Compilation Complete

#### **• Competition complete**

0132 AH-BT13A-SE  
VAX/VMS V4.0

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